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(54) **CRIBBAGE BOARD HAVING ILLUMINATING PEG HOLES**

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(21) Appl. No.: **14/242,572**

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(51) **Int. Cl.**
A63F 13/00 (2014.01)
A63F 3/00 (2006.01)
A63F 9/24 (2006.01)

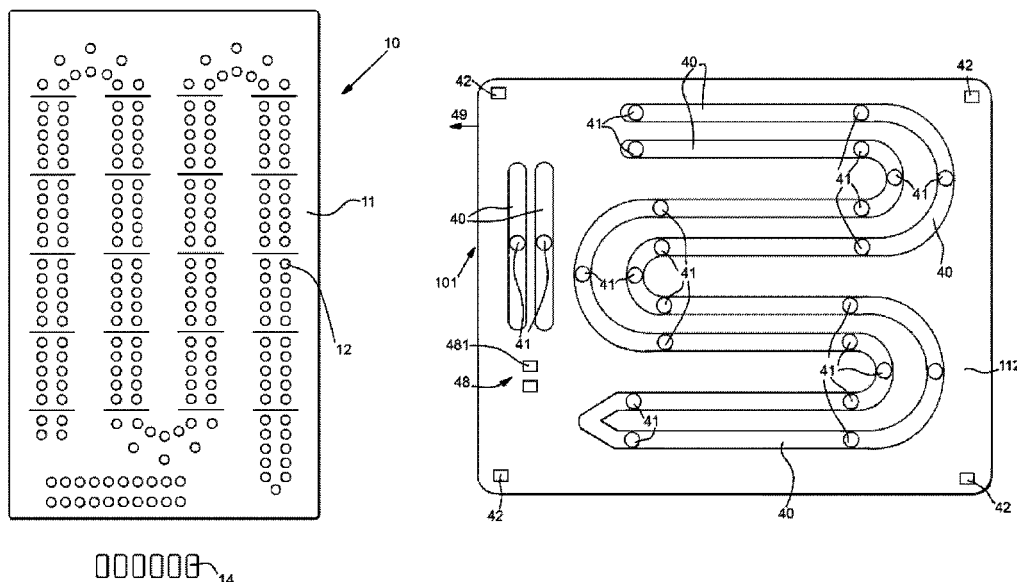
(57) **ABSTRACT**

(52) **U.S. Cl.**
CPC **A63F 3/00643** (2013.01); **A63F 9/24** (2013.01); **A63F 2003/00646** (2013.01); **A63F 2003/00649** (2013.01); **A63F 2003/00652** (2013.01); **A63F 2003/00656** (2013.01); **A63F 2003/00659** (2013.01); **A63F 2009/2451** (2013.01); **A63F 2009/2452** (2013.01); **A63F 2009/2454** (2013.01)

A cribbage board having illuminating peg holes includes a discrete upper piece and a discrete lower piece. The top side of the upper piece includes a playing surface which is defined by a plurality of holes arranged as a first track and a second track, with each track including a continuous series of holes. The bottom side of the upper piece includes a plurality of distinct hollow channels, each running underneath a separate track of holes. In the hollow channels are a plurality of colored LEDs which illuminate when provided with electrical power. The LEDs are configured to illuminate underneath the first track of holes in a distinct color from the LEDs disposed underneath the second track of holes, so as to enable the different tracks of holes to be readily distinguished in a dark environment.

(58) **Field of Classification Search**
CPC A63F 2003/00649; A63F 2003/00652; A63F 2003/00656; A63F 2003/00659; A63F 2003/00646; A63F 2009/2451; A63F 2009/2452; A63F 2009/2454
USPC 273/237, 238, 287, 260, 261
See application file for complete search history.

14 Claims, 7 Drawing Sheets



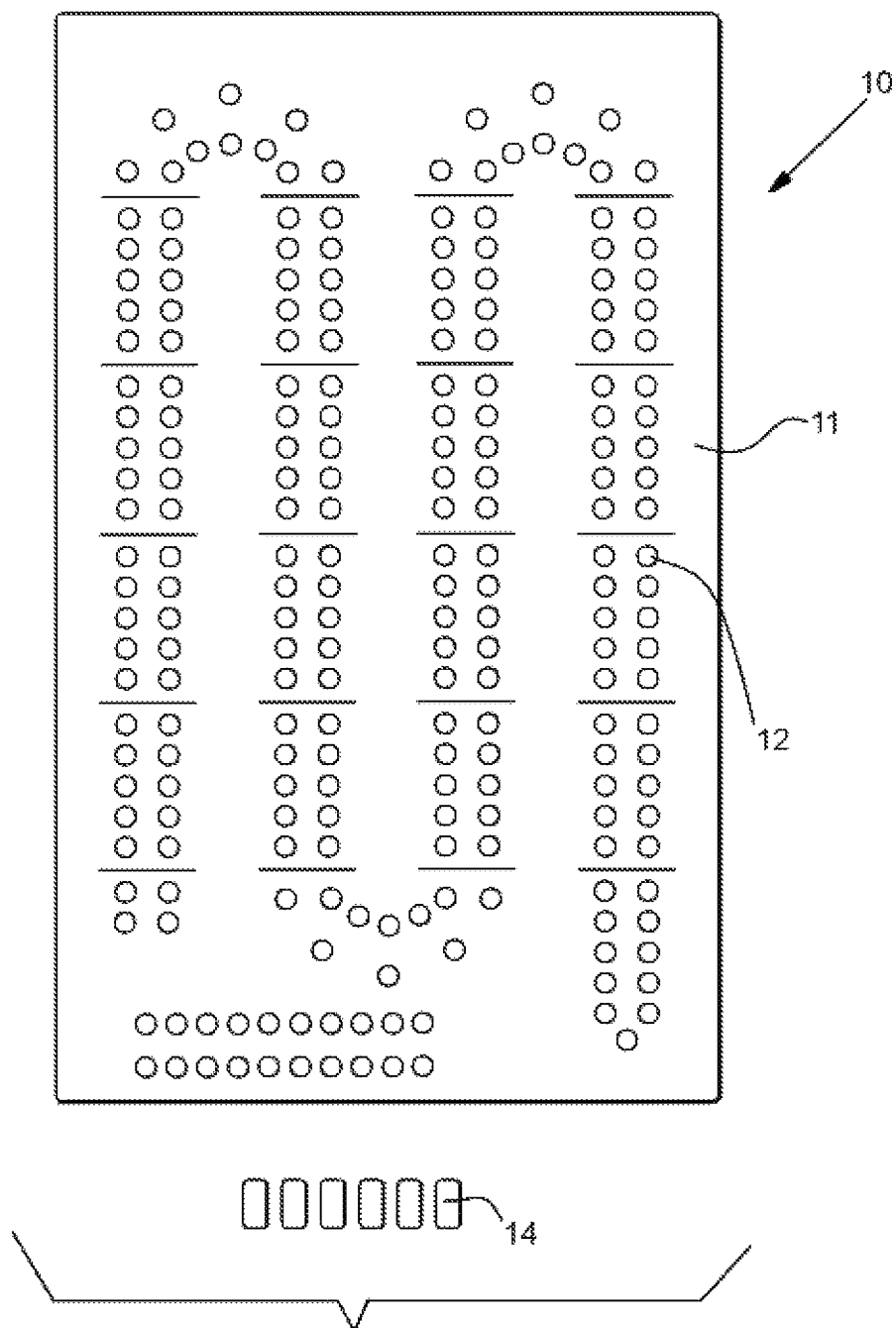


FIG. 1

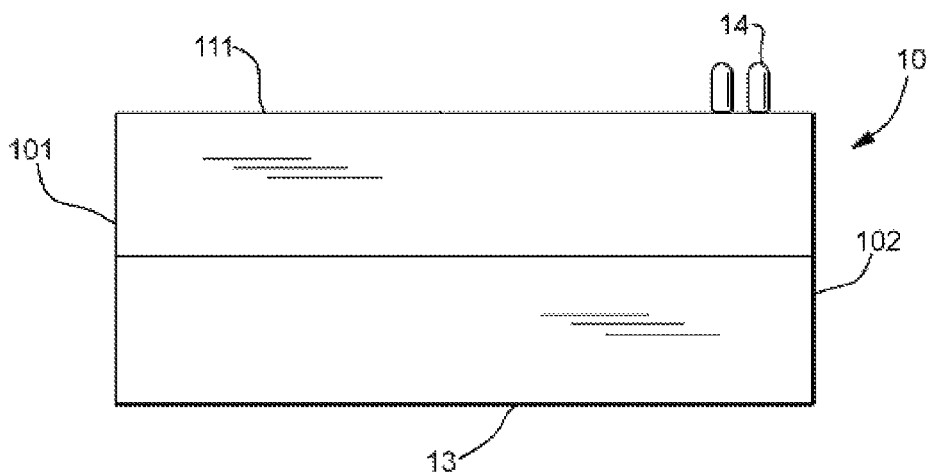
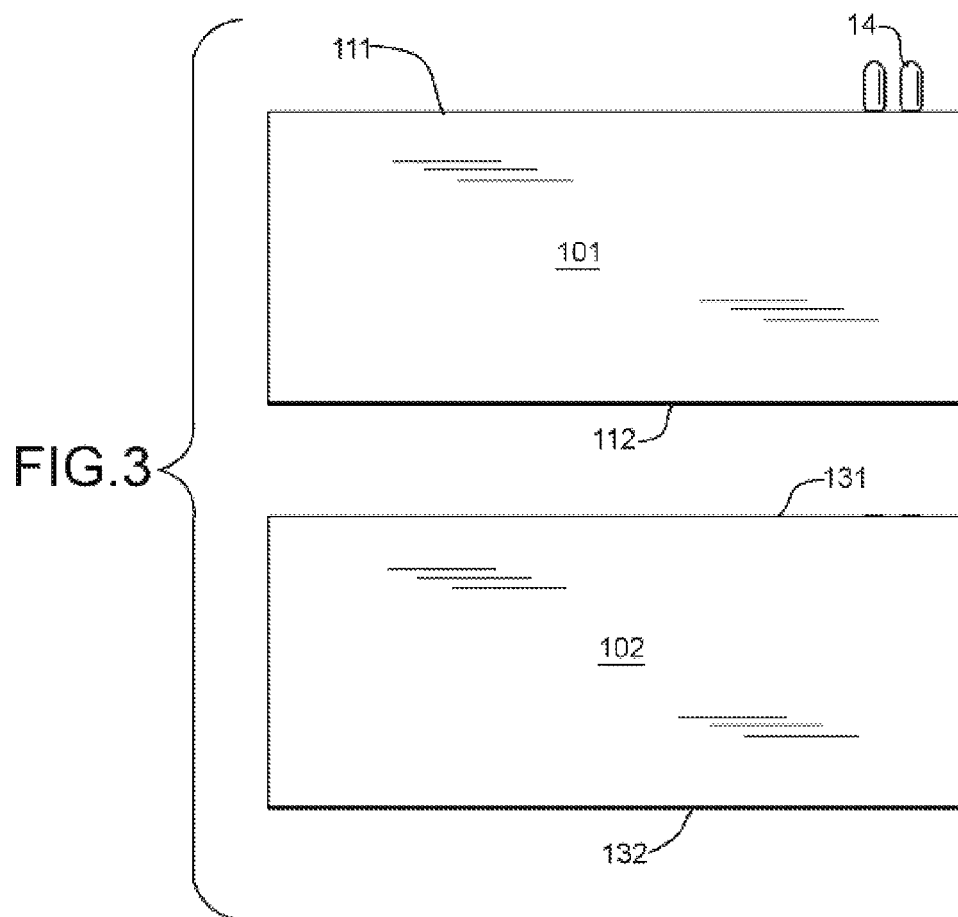


FIG. 2



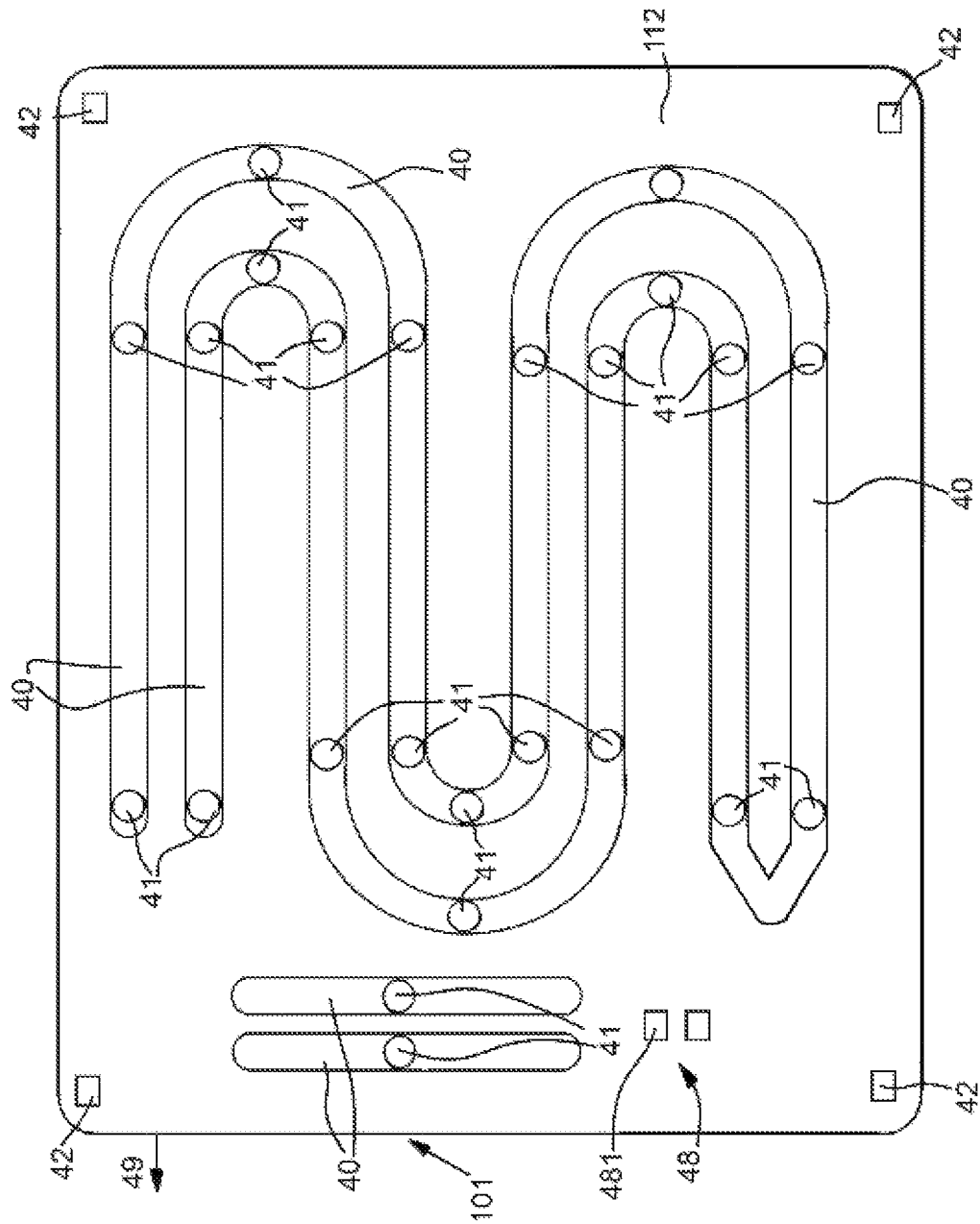


FIG. 4A

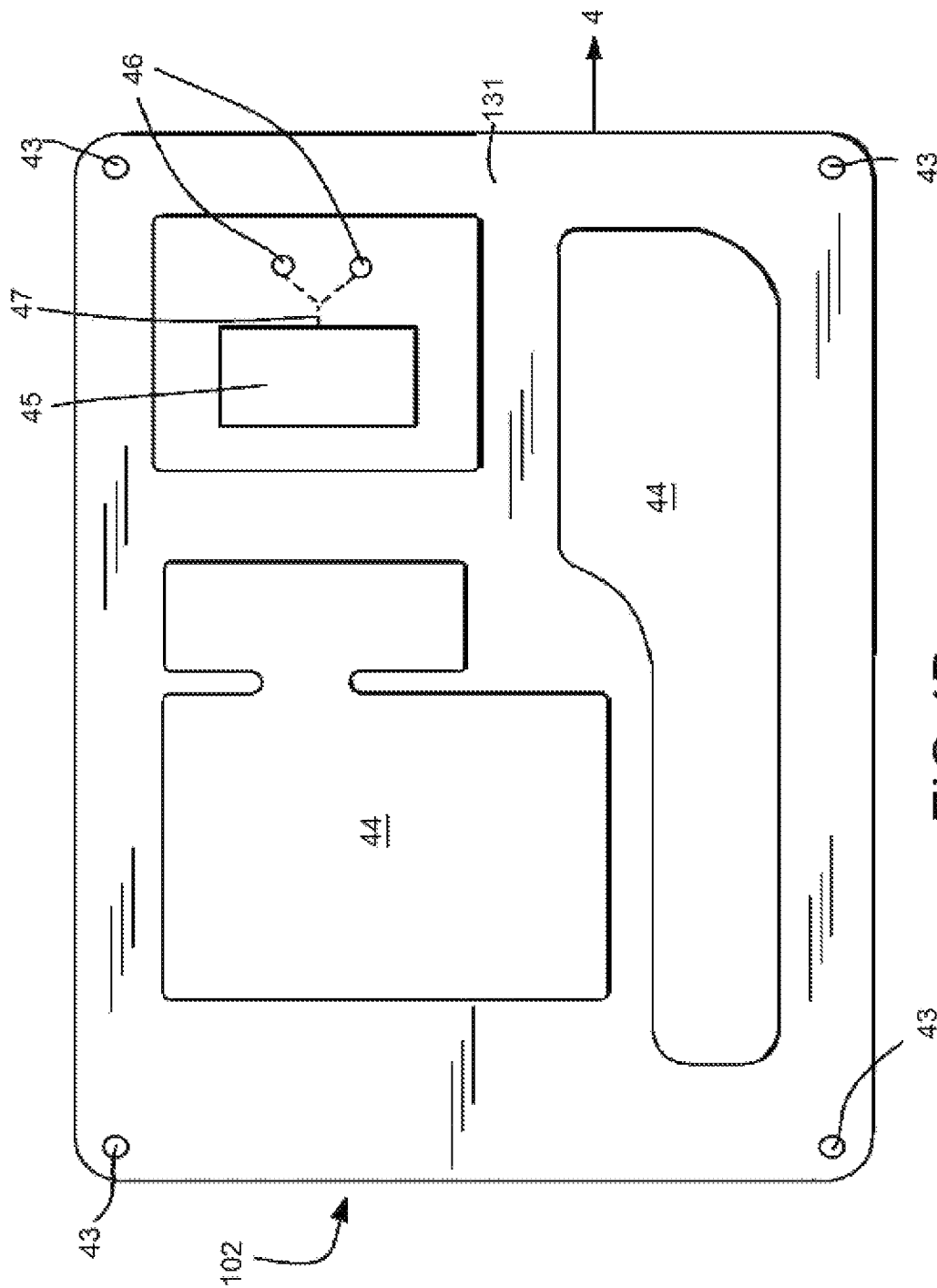


FIG. 4B

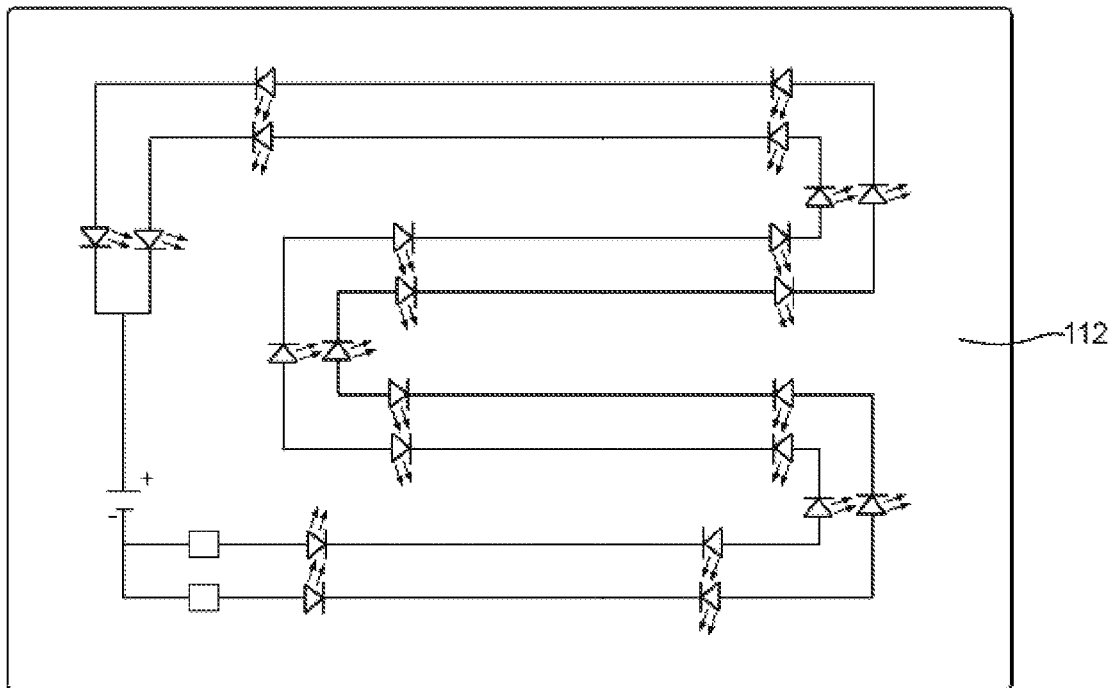


FIG.5

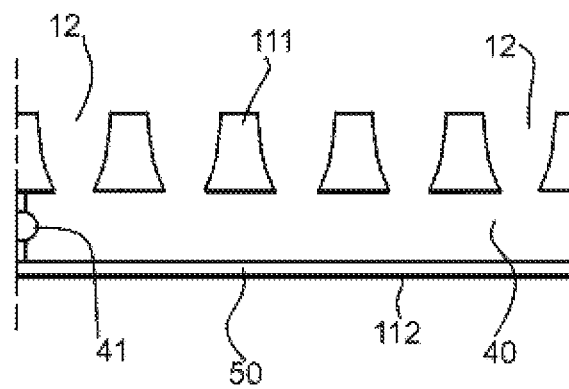


FIG. 6

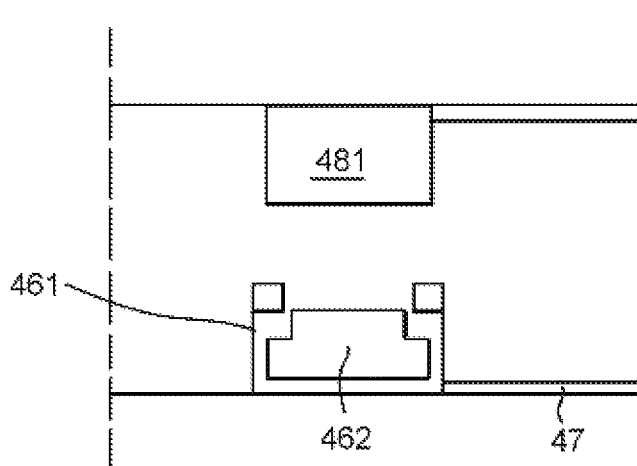


FIG. 7A

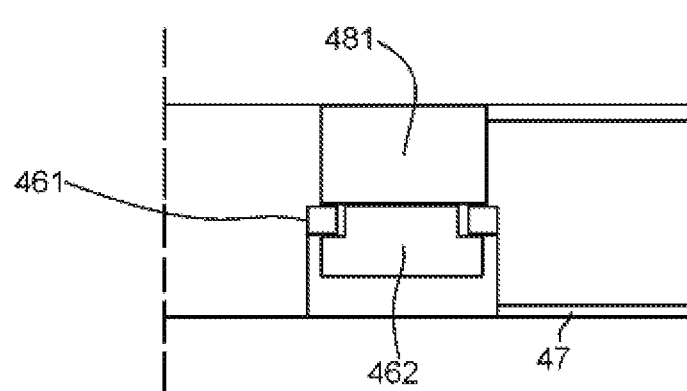


FIG. 7B

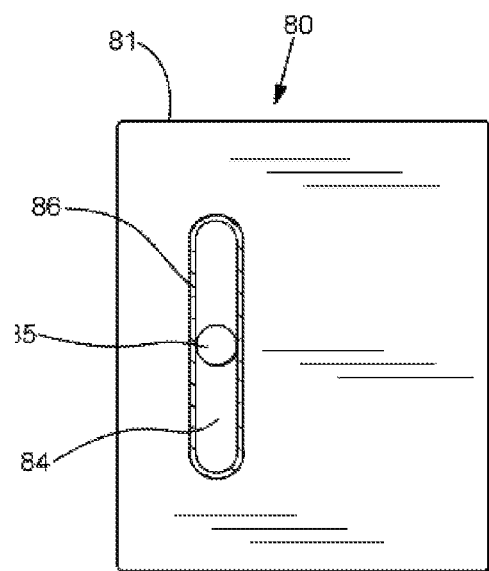
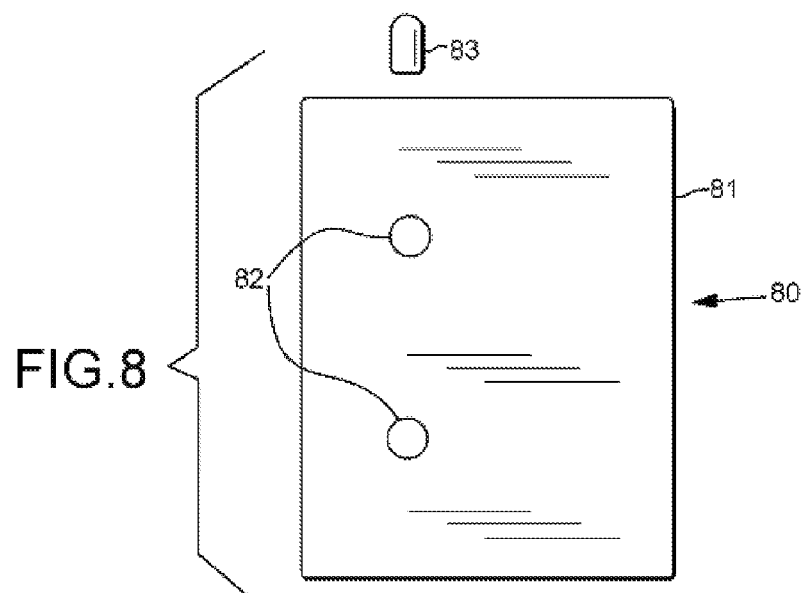


FIG.9

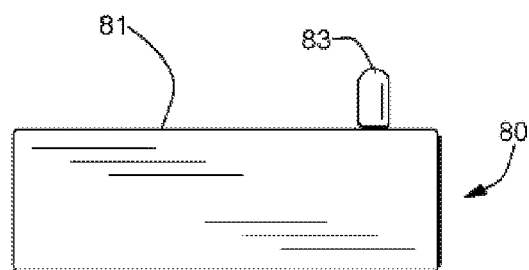


FIG.10

1

CRIBBAGE BOARD HAVING ILLUMINATING PEG HOLES

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top plan view of a cribbage board having illuminating peg holes and accompanying pegs built in accordance with the present invention.

FIG. 2 is a side elevational view of a cribbage board having illuminating peg holes built in accordance with the present invention with a plurality of pegs disposed thereon.

FIG. 3 is an exploded side elevational view of a cribbage board having illuminating peg holes built in accordance with the present invention with a plurality of pegs disposed thereon.

FIG. 4a is a bottom plan view of a cross section of the upper piece of a cribbage board having illuminating peg holes built in accordance with the present invention.

FIG. 4b is a top plan view of the lower piece of a cribbage board having illuminating peg holes built in accordance with the present invention.

FIG. 5 is a bottom plan view of the electrical wiring of the upper piece of a cribbage board having illuminating peg holes built in accordance with the present invention.

FIG. 6 is a partial side elevational view of a cross section of the upper piece of a cribbage board having illuminating peg holes built in accordance with the present invention.

FIG. 7a is a partial side elevational view of a cross section of a power connector of a cribbage board having illuminating peg holes built in accordance with the present invention in the disconnected position.

FIG. 7b is a partial side elevational view of a cross section of a power connector of a cribbage board having illuminating peg holes built in accordance with the present invention in the connected position.

FIG. 8 is a top plan view of a board game board having illuminating peg holes and accompanying pegs built in accordance with the present invention.

FIG. 9 is a bottom plan view of a cross section of the upper piece of a board game board having illuminating peg holes built in accordance with the present invention.

FIG. 10 is a side elevational view of a board game board having illuminating peg holes built in accordance with the present invention with a peg disposed thereon.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings and in particular FIGS. 1, 2 and 3, a cribbage board having illuminating peg holes 10 is shown having a discrete upper piece 101 and a discrete lower piece 102. In the preferred embodiment, the upper piece 101 is a wooden, rectangular body which includes on a top side 111 and a bottom side 112. In an alternate embodiment, the upper piece 101 may be substantially constructed of another rigid material, such as plastic or metal. The top side 111 includes a playing surface which embodies one conventional cribbage scorekeeping arrangement. In this regard, the playing surface is has a plurality of holes 12 arranged as a first track and a second track, with each track defined by a continuous series of holes 12, and two rows of including game counter holes 12. It is understood, however, that the present invention may be practiced with a playing surface 11 which embodies substantially any cribbage scorekeeping arrangement.

In the preferred embodiment, the lower piece 102 is a wooden, rectangular body having the same length and width as the upper piece 101 and which also includes on a top side

2

131 and a bottom side 132. In an alternate embodiment, the lower piece 102 may be substantially constructed of another rigid material, such as plastic or metal. The top side 131 of the lower piece 102 and the bottom side 112 of the upper piece 101 are configured to be removably fastened together through a plurality of fastening magnets, as referenced in FIG. 4a, infra, to form the assembled cribbage board having illuminating peg holes 10. In an alternate embodiment, the lower piece 102 can be removably fastened to the upper piece 101 through an alternate fastening system, such as latch fastener or hook and loop fasteners. Due to the identical rectangular dimensions and the placement of the fastening interface, the lower piece 102 is configured such that may be fittedly secured to on the upper piece 101 in both a first orientation and a second orientation, with the second orientation representing a 180 degree rotation from the first orientation.

A plurality of pegs 14 sized to be removably placed in the holes 12 are included with the cribbage board having illuminating peg holes 10. The pegs 13 are constructed of a clear plastic material, defined in the preferred embodiment as acrylic. In an alternate embodiment, the pegs may be constructed out of another translucent or transparent material, such as plastic or glass. In any embodiment, the pegs 13, through their ability to allow light to pass through, are configured to illuminate when inserted in a hole 12 with any light which is being generated beneath that hole 12. By such configuration, when any peg 13 is disposed in an illuminated hole 12, the peg 13 appears to be illuminated.

Referring now to FIGS. 1, 4a, 4b, 5, 6, 7a, and 7b, the bottom side 112 of the upper piece 101 includes a plurality of hollow channels 40 disposed therein. Each hollow channel 40 is defined by a contiguous groove engraved in the wood material of the upper piece 101. It is contemplated, however, that the defining characteristic of the hollow channels 40 is their groove nature and thus, the hollow channels 40 may alternatively be grooves formed in any suitable way, such as from being machined, molded, or cut. Relative to the top side 111 of the upper piece 101, the hollow channels 40 form a continuous groove underneath the first track of holes 12, the second track of holes 12, and the rows of holes 12 forming the game counter.

Disposed in the hollow channels 40 are a plurality of lights 41. In the preferred embodiment, the lights 41 are colored LEDs which illuminate when provided with electrical power. It is contemplated that in the preferred embodiment, the lights 41 disposed in the hollow channel 40 underneath the first track of holes 12 are distinct in color from the lights disposed in the hollow channel 40 underneath the second track of holes 12, with the light 41 under each game counter row corresponding in color to the lights 41 under one of the tracks of holes 12, so as to enable the different tracks of holes 12 to be readily distinguished in a dark environment.

The two distinct hollow channels 40 meet underneath the winner peg hole, defined by the single peg hole at the end of both the first track of holes 12 and the second track of holes 12. As a result, the light from the first track of holes 12 and the second track of holes 12 combines underneath the winner peg hole and the light emanating from the winner peg hole is a third distinct color, representing the combination of the light from the first track of holes 12 and the second track of holes 12.

At the bottom of each hole 12 is a narrow passageway which enables light emanating from in the hollow channel 40 thereunder to pass into the hole 12. In order to increase the amount of light for passing through the holes 12 and suitably illuminate the holes 12 for cribbage scorekeeping in a dark environment, a plurality of lights 41 are disposed at various

3

points in each hollow channel **40**. In the preferred embodiment with a cribbage board having the scorekeeping arrangement shown in FIG. 1, a light **41** is disposed in substantially on each end of the hollow channels **40** and a light is disposed at the top of each of the semicircles formed by the hollow channels **40**. In addition, a light **41** is disposed in the hollow channels **40** underneath the game counter rows.

Also improving the ability of the lights **41** to illuminate the holes **12** is a painted layer of chrome which covers the side walls of the hollow channels **40**. The layer of chrome forms a reflective surface along the hollow channels **40**, enabling light from the lights **41** to be more readily distributed throughout the hollow channels **40**. It is understood that that being reflective is the defining characteristic of the walls of the hollow channels **40** and, as such, contemplated that the walls may alternatively be constructed or lined with a reflective substance, or constructed of a reflective substance.

The bottom side **112** of the upper piece **101** and the top side **131** of the lower piece **102** both include components of a magnetic fastening interface which enables the upper piece **101** and the lower piece **102** to be removably fastened together. The magnetic fastening interface includes a plurality of magnets **42**, with one magnet **42** permanently attached to each corner of the bottom side **112** of the upper piece **101**, and a plurality of metal bolts **43**, with one bolt **43** permanently attached to each corner of the top side **131** of the lower piece **102**. Fastening of the upper piece **101** to the lower piece **102** is achieved when the magnets **42** are aligned over the bolts **43**, with the magnetic force from the magnets **42** creating a force that attracts the bolts **43**, pulling them towards the magnets **42**. The upper piece **101** may be removed from the lower piece **102** by manually rotating the upper piece **101** and/or lower piece **102** to cause the magnets **42** to no longer be aligned with the bolts **43**.

The top side **131** of the lower piece **102** includes a plurality of storage channels **44** and the power source of the cribbage board having illuminating peg holes **10**. The storage channels are defined as a depressions in the top side **131** in which materials can be placed into while not effecting the ability of the upper piece **101** to be fastened on the lower piece **102**. The power source of the cribbage board having illuminating peg holes **10** includes a battery compartment **45** connected to a power connector **46** through electrical wiring **47**. The power connector **46** includes two pin assemblies, each defined by a pin casing **461** and a pin **462** which movable between a disconnected position as shown in FIG. 7a and a connected position as shown in FIG. 7b. Because of gravity, the default position of the pin **462** is in the disconnected position. When a magnet is placed over the pin casing **461** however, the pin **462** will move to the connected position.

A power interface **48** disposed on the bottom side **112** of the upper piece **101** and includes two conductive magnets **481** which are connected to the lights **41** through electrical wiring. To enable the proper functioning of the LEDs, resistors are wired between the conductive magnets **481**, providing a direct current interface, and the lights **41** wired as two parallel sets of six LEDs wired in series.

The power interface **48** is structured to engage the power connector **46** when the upper piece **101** is fastened to the lower piece **102** with the upper piece **101** and the lower piece **102** each arranged in an illuminating direction **49**. The illuminating direction **49** is one of the possible orientations on which the lower piece **102** can be fittedly secured to on the upper piece **101**. When the power interface **48** engages the power connector **46**, the conductive magnets **481** are placed over the pin casings **461** and the magnetic force from the conductive magnets **481** move the pin **462** in each casing into

4

the connected position, where they remain until the conductive magnets **481** are removed. In the connected position, an electrical circuit is completed between the battery compartment **45** and the power interface **48**, resulting in the distribution of electrical power to the lights **41** and causing the same to illuminate. In this regard, when the upper piece **101** and the lower piece **102** are both arranged in the illuminating direction **49** and fastened together, electrical power from the battery compartment **45** is provided to the lights **41** and the holes **12** on the cribbage board having illuminating peg holes **10** illuminate from underneath. On the contrary, if upper piece **101** or lower piece **102** is rotated 180 degrees from the illuminating direction **49**, or if they are otherwise fastened together in the opposite orientation with only one facing the illuminating direction **49**, the upper piece **101** and lower piece **102** are fastened together without electrical power being provided to the lights **41** by way of the power interface **48**.

In an alternate embodiment, the power interface **48** may be defined by two fixed corresponding electrical contacts, actuated when placed in frictional contact through a specific orientation of the components of the cribbage board having illuminating peg holes **10** or through a switching mechanism.

In an alternate embodiment, a base cover **50** is disposed on the bottom side **112** of the upper piece **101**, enclosing the bottom of the hollow channels **40**. In such an embodiment, the side of the base cover **50** adjacent to the hollow channels **40** is also covered with a layer of chrome paint.

It is contemplated that to make the playing surface of any game board visible in darker environments, the implementation of hollow channels below the playing surface of the game board may be employed with any game board as long as the surface of a material or construction to enable light from below the surface to pass through. Referring now to FIG. 8, in an alternate embodiment of the present invention, an illuminated board game board **80** is defined by a board body **81** with two surface holes **82** and a peg **83** sized to be placed in either surface hole **82**. Running underneath the surface holes **82** is a hollow channel **84** and an LED light **85**. At the bottom of each hole **82** is a narrow passageway which enables light emanating from in the hollow channel **84** thereunder to pass into the hole **82**. The walls **86** of the hollow channel **84** are defined by a reflective surface, enabling light from the LED light **85** to be more readily distributed throughout the hollow channels **84**.

The instant invention has been shown and described herein in what is considered to be the most practical and preferred embodiment. It is recognized, however, that departures may be made therefrom within the scope of the invention and that obvious modifications will occur to a person skilled in the art.

What is claimed is:

1. An illuminating board for playing a game, comprising: a game board having a playing surface with a plurality of discrete cavities and a power source;

said game board is defined by an upper and a lower piece releasably attached to each other; said cavities have at least one light passing through; and a first set of at least one lights are disposed under the surface of said game board and a second set of at least one lights are disposed on said upper piece and lower piece, wherein at least one of lights passes through at least one of said cavities.

2. An illuminating board for playing a game, comprising: a game board having a playing surface with a plurality of discrete cavities and a power source; at least one hollow channel defined as a continuous groove in the game board underneath said playing surface; and

5

a first set of at least one lights disposed in said at least one hollow channel and positioned such that light emitted from said first set of at least one lights passes through at least one of said cavities.

3. The illuminating board for playing a game of claim 2, wherein the game board includes a plurality of discrete hollow channels.

4. The illuminating board for playing a game of claim 2, additionally comprising a second set of at least one light disposed in at least one of said hollow channels and positioned such that light emitted from said second set of at least one lights passes through at least one of said, wherein no cavity has light from both the first set of at least one lights and the second set of at least one lights passing through.

5. The illuminating board for playing a game of claim 2, wherein the walls of said hollow channels are reflective.

6. The illuminating board for playing a game of claim 2, wherein said game board is defined by an upper piece and a lower piece configured to releasably attach to each other.

7. The illuminating board for playing a game of claim 6, wherein:

said cavities, said hollow channels, said first set of at least one lights and said second set of at least one lights are disposed on said upper piece.

8. The illuminating board for playing a game of claim 7, additionally comprising:

a power connector electrically connected to said power source;

a power interface electrically connected to said first set of lights and said second set of lights; and

wherein electrical power from said power source is availed to said first set of lights and said second set of lights when said power interface contacts said power connector.

9. The illuminating board for playing a game of claim 7 wherein said power source is disposed on said lower piece.

6

10. A cribbage board having illuminating peg holes comprising:

a game board having a plurality of discrete cavities arranged in at least two distinct tracks and a power source;

a first set of at least one lights disposed on said game board underneath at least one of said cavities and positioned such that light emitted from said first set of at least one lights passes through any cavity under which the first set of at least one lights is disposed; and

a first hollow channel and sidewalls defined as a continuous groove in the game board underneath one of said tracks of cavities, wherein said first set of at least one lights are disposed in said at least one hollow channel and light from said first set of at least one lights passes through all cavities in the track of cavities above the first hollow channel.

11. The cribbage board having illuminating peg holes of claim 10, additionally comprising a second hollow channel defined as a continuous groove in the game board underneath one of said tracks of cavities, wherein each track of cavities has no more than one hollow channel thereunder.

12. The cribbage board having illuminating peg holes of claim 11, additionally comprising a second set of at least one lights disposed in the second hollow channel and positioned such that light emitted from said second set of at least one lights passes through the cavities above the second hollow channel.

13. The cribbage board having illuminating peg holes of claim 10, wherein said game board is defined by an upper piece and a lower piece configured to releasably attach to each other.

14. The cribbage board having illuminating peg holes of claim 10 wherein the sidewalls of said hollow channels are reflective.

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